

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071519\
 Data File : VX010873.D
 Acq On : 15 Jul 2019 10:49
 Operator : JC/SP
 Sample : K3783-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EB-03-190711

Quant Time: Jul 16 01:56:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	241957	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	376564	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	343796	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	156453	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	125855	55.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.96%	
35) Dibromofluoromethane	5.50	113	117755	51.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.22%	
50) Toluene-d8	8.71	98	453542	51.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.90%	
62) 4-Bromofluorobenzene	11.13	95	153186	48.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.28%	

Target Compounds

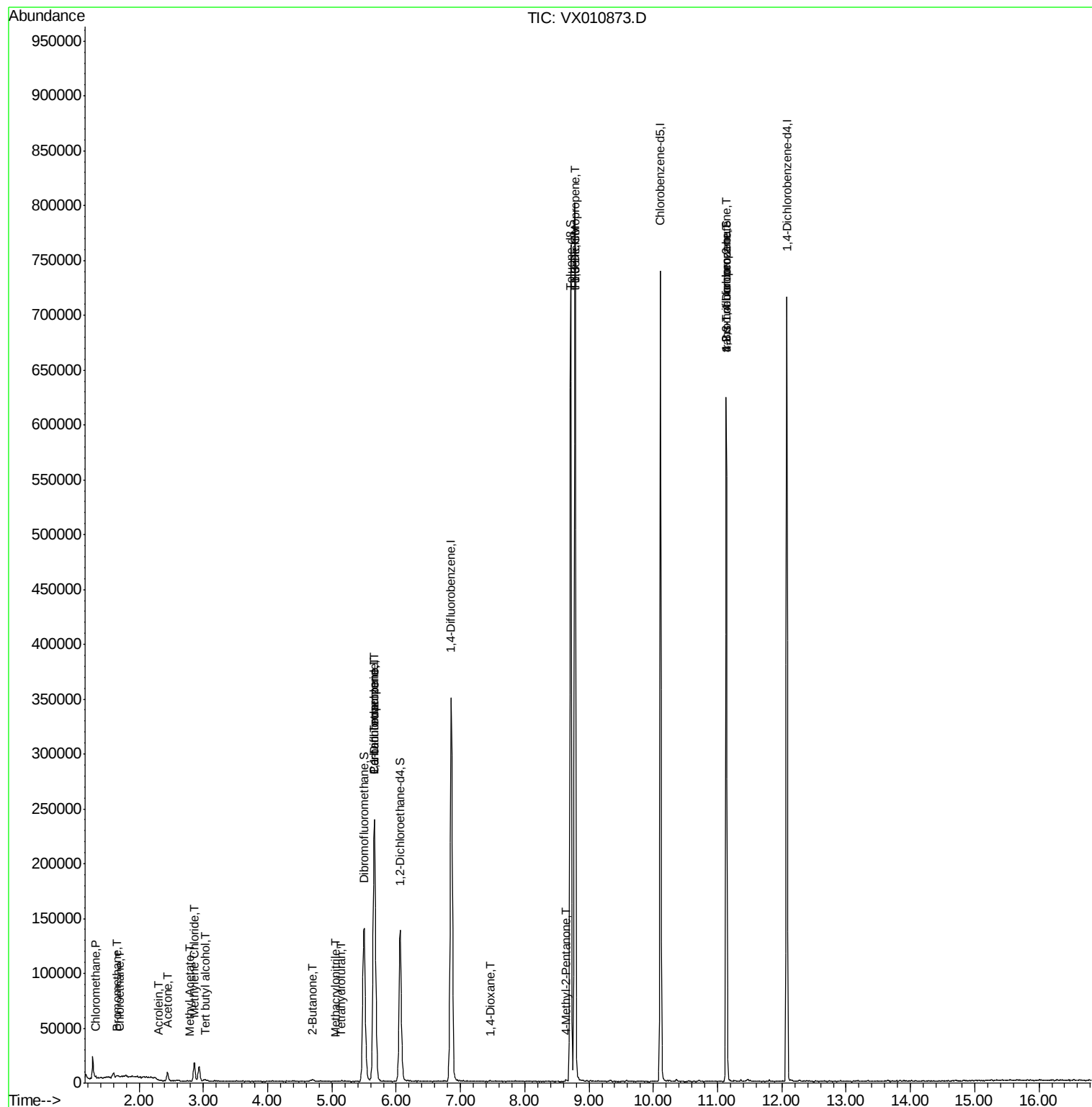
					Qvalue
3) Chloromethane	1.33	50	564	0.288	ug/l 100
5) Bromomethane	1.65	94	794	0.760	ug/l # 75
6) Chloroethane	1.71	64	369	0.292	ug/l # 77
11) Tert butyl alcohol	3.03	59	1476	2.486	ug/l # 87
13) Acrolein	2.30	56	189	0.480	ug/l # 14
16) Acetone	2.44	43	8408	7.395	ug/l 95
18) Methyl Acetate	2.79	43	729	0.322	ug/l # 56
20) Methylene Chloride	2.86	84	8579	3.667	ug/l 93
25) 2-Butanone	4.68	43	1917	1.149	ug/l 89
29) Tetrahydrofuran	5.14	42	466	0.451	ug/l 91
36) 1,1-Dichloropropene	5.66	75	16179	5.407	ug/l # 48
38) Carbon Tetrachloride	5.66	117	22161	6.839	ug/l # 15
41) Methacrylonitrile	5.06	41	341	0.202	ug/l # 18
49) 1,4-Dioxane	7.48	88	22	0.323	ug/l # 1
51) 4-Methyl-2-Pentanone	8.64	43	1257	0.386	ug/l 96
52) Toluene	8.78	92	303081	49.367	ug/l 100
53) t-1,3-Dichloropropene	8.78	75	3625	1.045	ug/l # 1
76) 1,2,3-Trichloropropane	11.13	75	77403	27.150	ug/l # 33
81) trans-1,4-Dichloro-2-buten	11.13	75	77403	63.337	ug/l # 16

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010873.D

Acq: 15 Jul 2019 10:49

Instrument :

MSVOA_X

ClientSampleId :

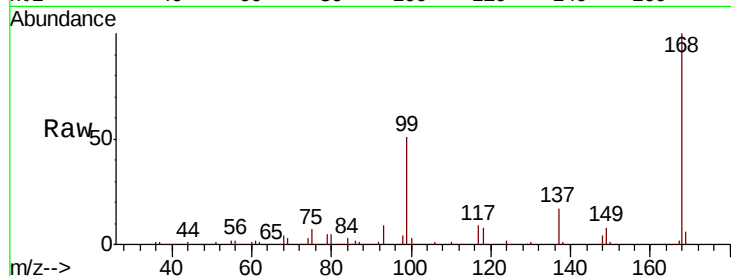
EB-03-190711

Tot Ion:168 Resp: 241957

Ion Ratio Lower Upper

168 100

99 51.0 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

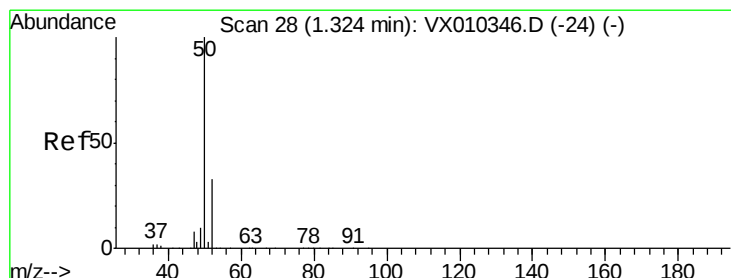
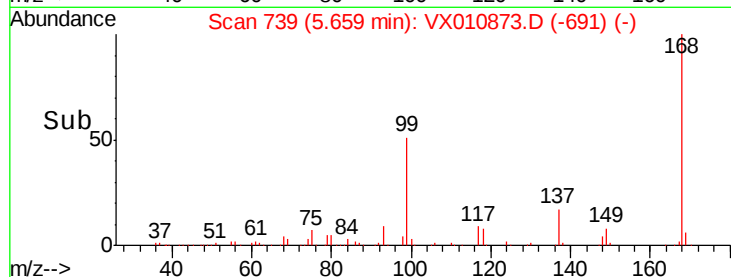
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.288 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010873.D

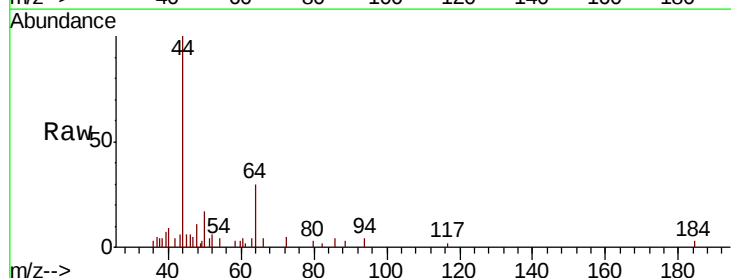
Acq: 15 Jul 2019 10:49

Tgt Ion: 50 Resp: 564

Ion Ratio Lower Upper

50 100

52 33.3 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

400

300

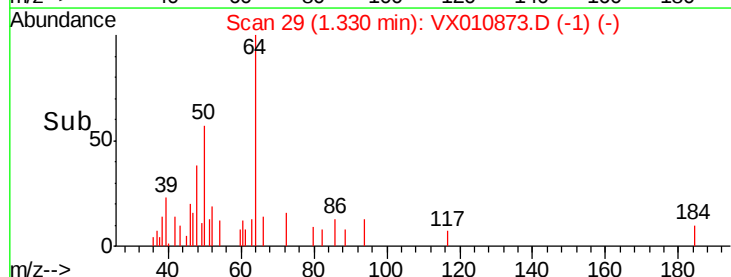
200

100

0

Time-->

1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.760 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010873.D

Acq: 15 Jul 2019 10:49

Instrument :

MSVOA_X

ClientSampleId :

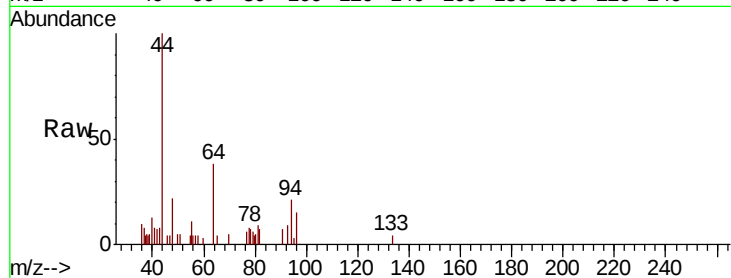
EB-03-190711

Tot Ion: 94 Resp: 794

Ion Ratio Lower Upper

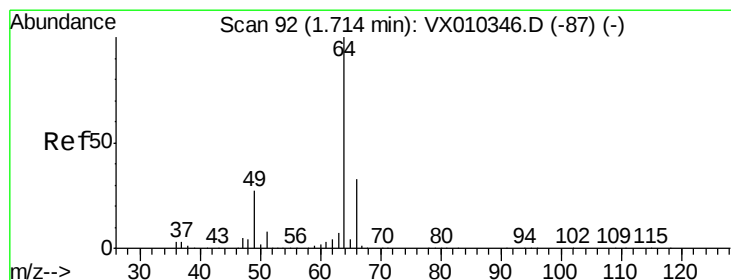
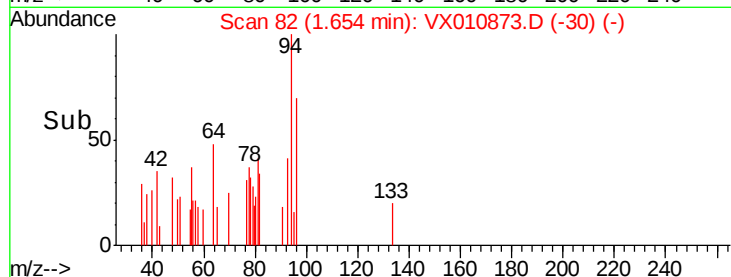
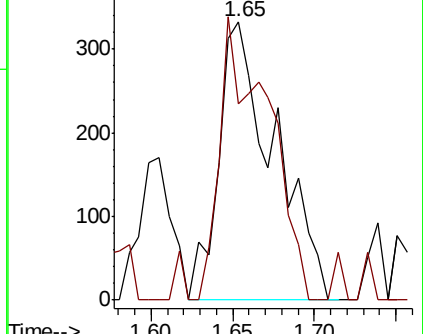
94 100

96 70.3 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.292 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX010873.D

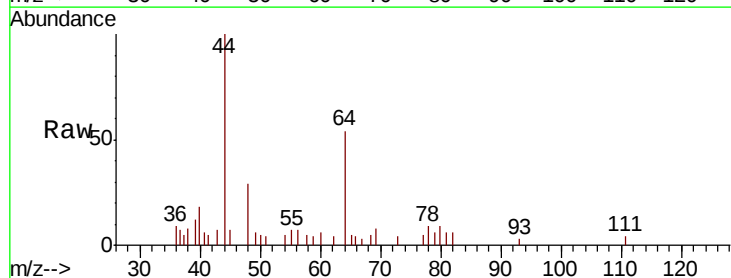
Acq: 15 Jul 2019 10:49

Tgt Ion: 64 Resp: 369

Ion Ratio Lower Upper

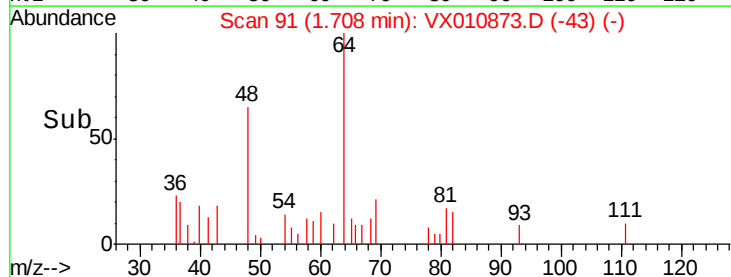
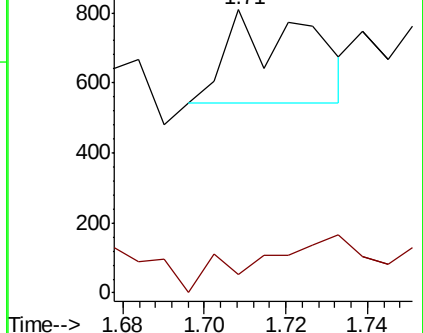
64 100

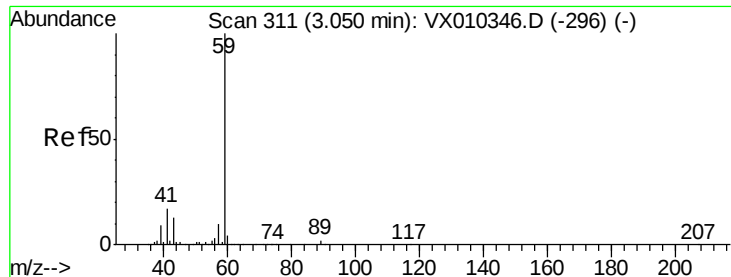
66 20.0 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



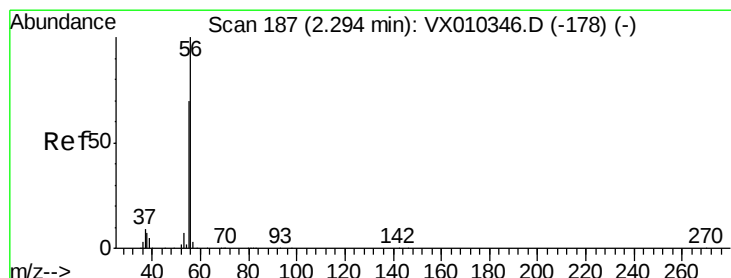
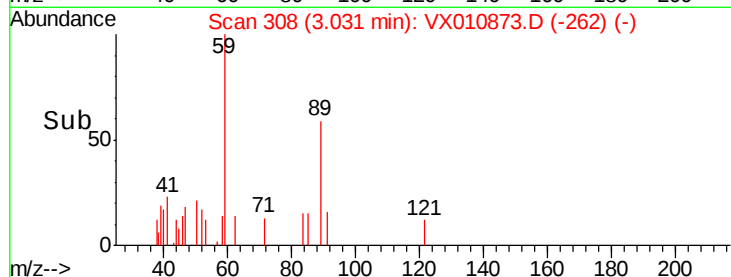
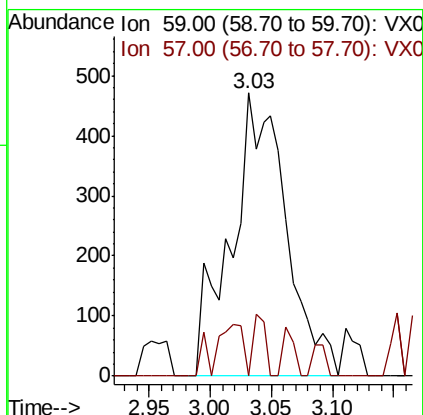
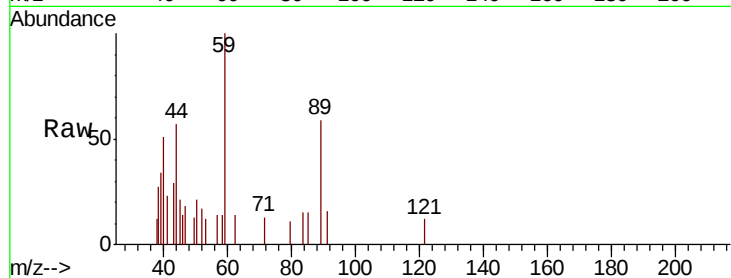


#11

Tert butyl alcohol
 Concen: 2.486 ug/l
 RT: 3.03 min Scan# 308
 Delta R.T. -0.02 min
 Lab File: VX010873.D
 Acq: 15 Jul 2019 10:49

Instrument :
 MSVOA_X
 ClientSampled :
 EB-03-190711

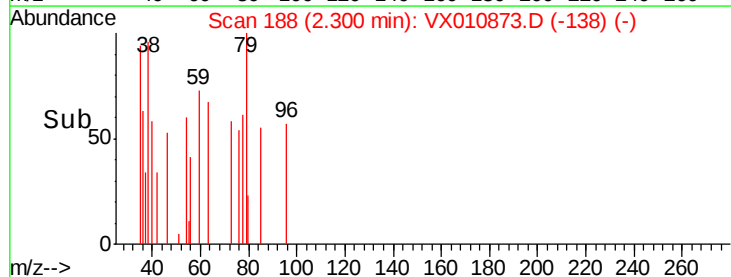
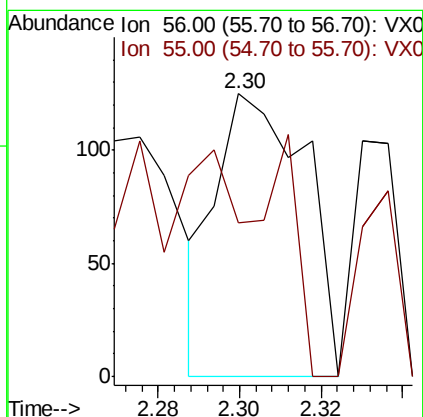
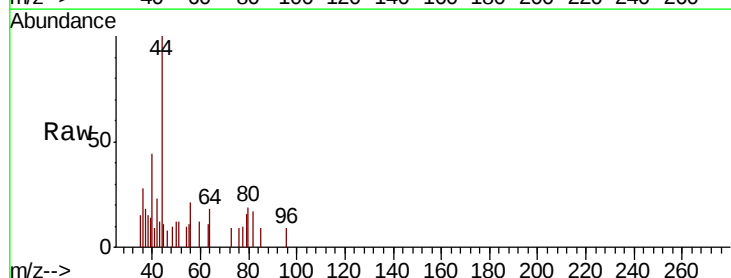
Tot Ion: 59 Resp: 1476
 Ion Ratio Lower Upper
 59 100
 57 4.8 7.7 11.5#

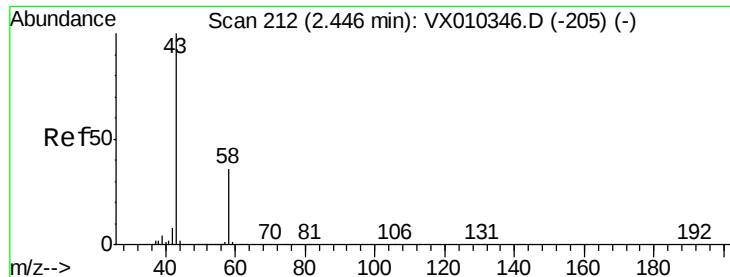


#13

Acrolein
 Concen: 0.480 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX010873.D
 Acq: 15 Jul 2019 10:49

Tgt Ion: 56 Resp: 189
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.9 85.3#





#16

Acetone

Concen: 7.395 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010873.D

Acq: 15 Jul 2019 10:49

Instrument :

MSVOA_X

ClientSampleId :

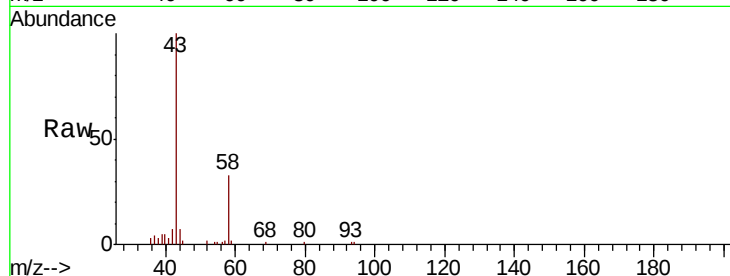
EB-03-190711

Tot Ion: 43 Resp: 8408

Ion Ratio Lower Upper

43 100

58 33.3 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

6000

5000

4000

3000

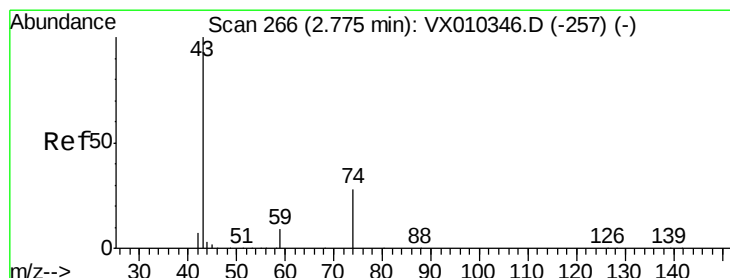
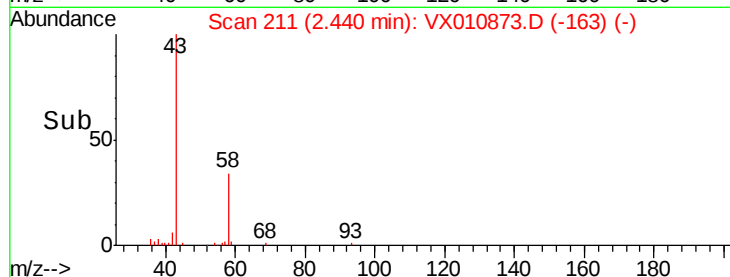
2000

1000

0

Time-->

2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 0.322 ug/l

RT: 2.79 min Scan# 268

Delta R.T. 0.01 min

Lab File: VX010873.D

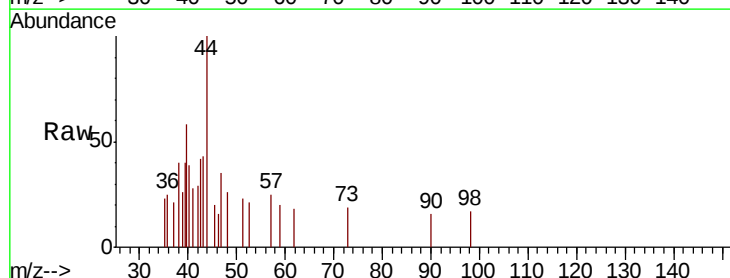
Acq: 15 Jul 2019 10:49

Tgt Ion: 43 Resp: 729

Ion Ratio Lower Upper

43 100

74 3.8 21.3 31.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.79

300

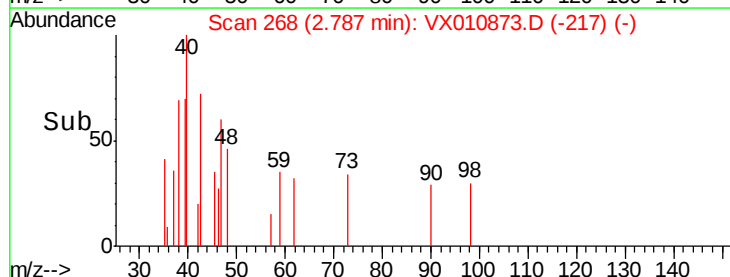
200

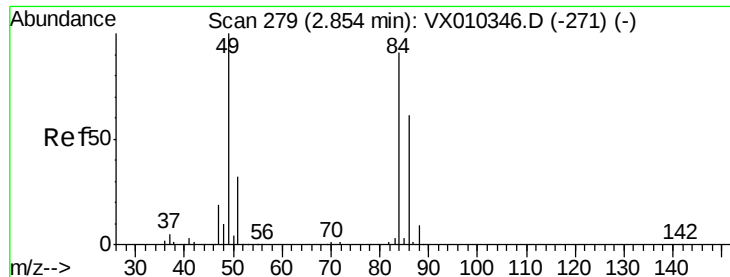
100

0

Time-->

2.70 2.75 2.80

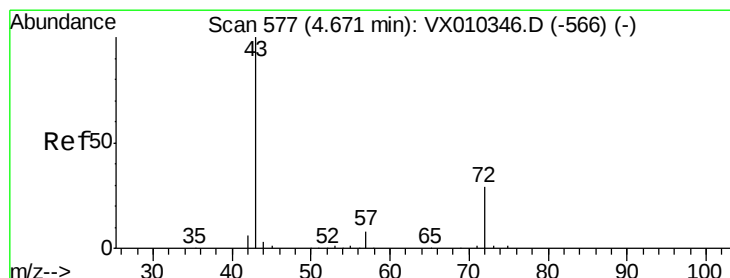
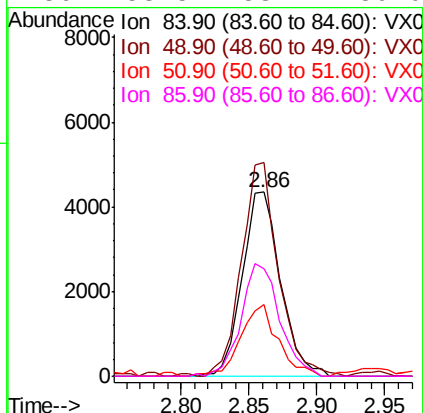
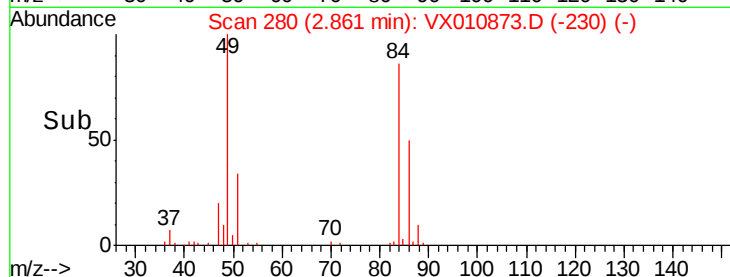
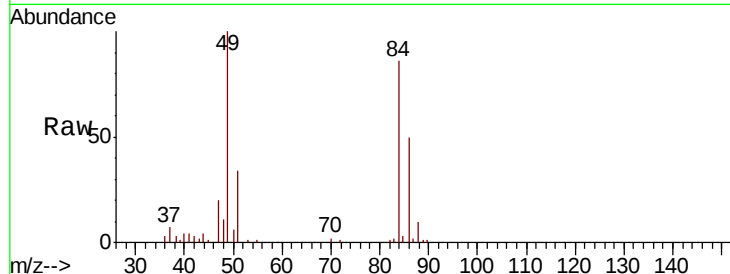




#20
Methvlene Chloride
Concen: 3.667 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010873.D
Acq: 15 Jul 2019 10:49

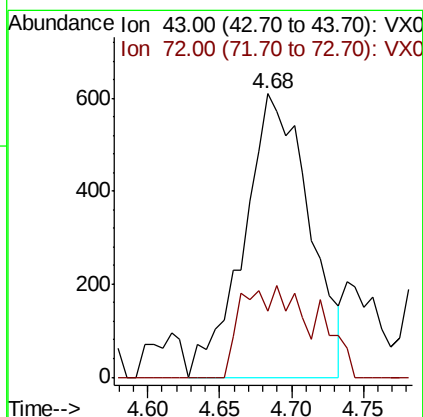
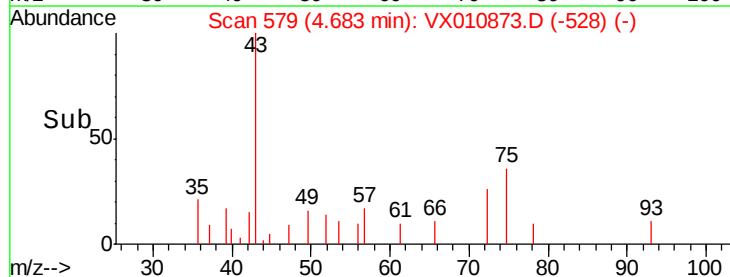
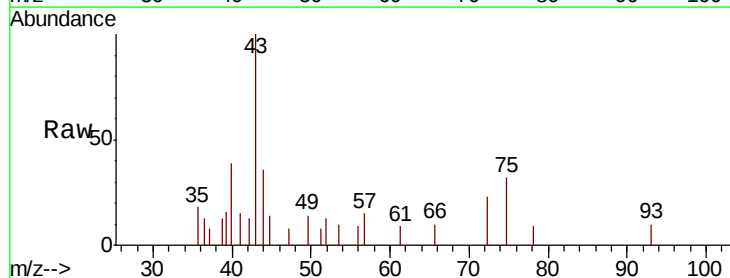
Instrument :
MSVOA_X
ClientSampleId :
EB-03-190711

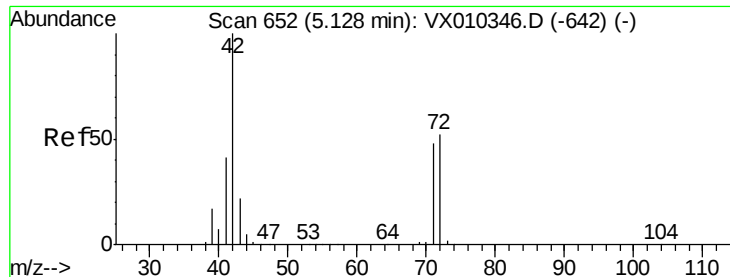
Tot Ion:	84	Resp:	8579
Ion	Ratio	Lower	Upper
84	100		
49	114.4	87.5	131.3
51	39.2	27.7	41.5
86	58.5	53.4	80.0



#25
2-Butanone
Concen: 1.149 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.01 min
Lab File: VX010873.D
Acq: 15 Jul 2019 10:49

Tgt Ion:	43	Resp:	1917
Ion	Ratio	Lower	Upper
43	100		
72	23.4	23.3	34.9





#29

Tetrahydrofuran

Concen: 0.451 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX010873.D

Acq: 15 Jul 2019 10:49

Instrument :

MSVOA_X

ClientSampleId :

EB-03-190711

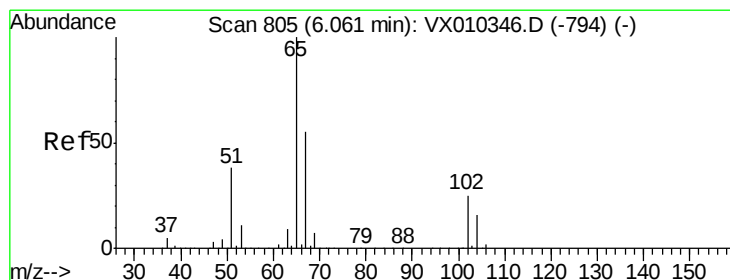
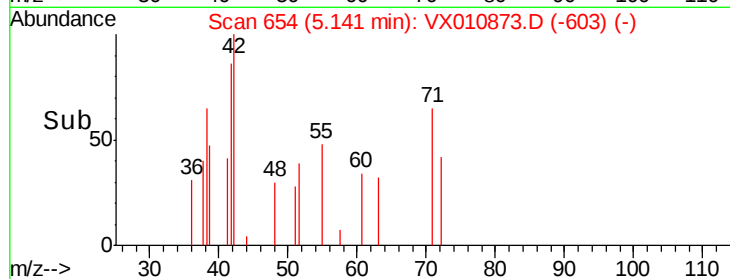
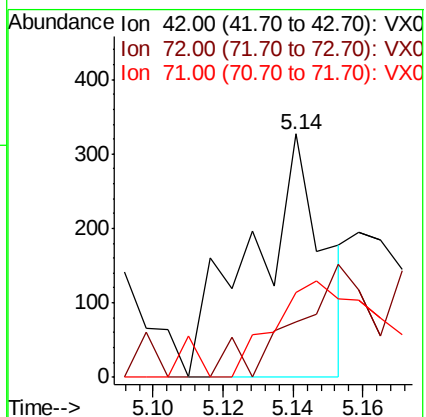
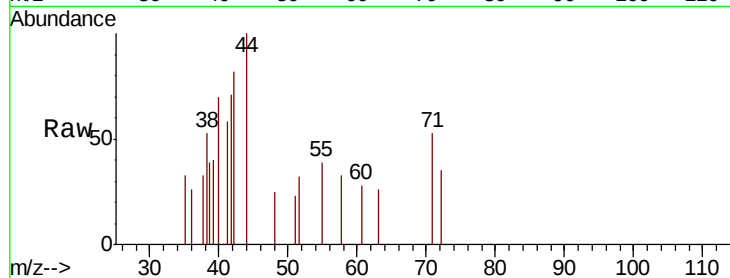
Tot Ion: 42 Resp: 466

Ion Ratio Lower Upper

42 100

72 47.0 40.6 60.8

71 55.8 37.8 56.8



#33

1,2-Dichloroethane-d4

Concen: 55.477 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010873.D

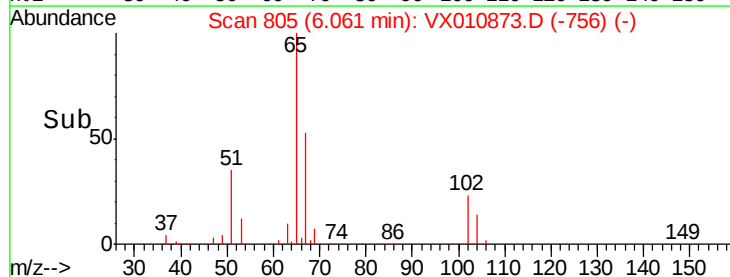
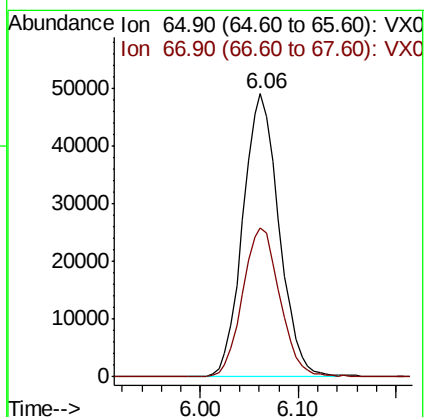
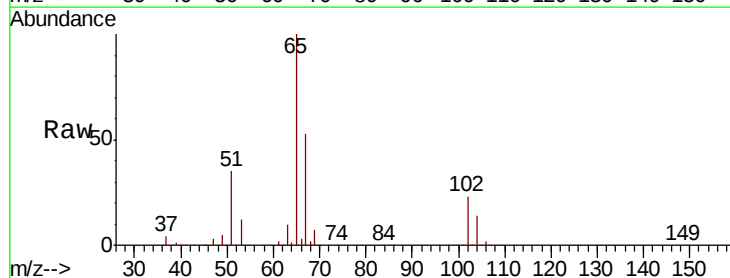
Acq: 15 Jul 2019 10:49

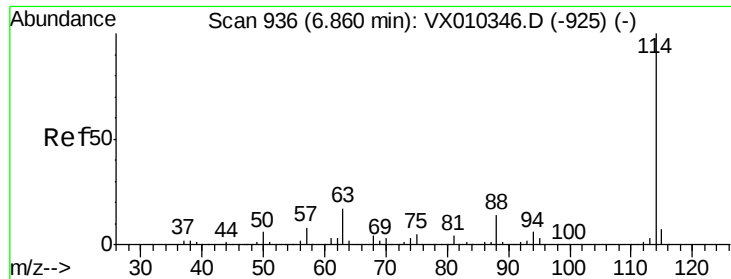
Tgt Ion: 65 Resp: 125855

Ion Ratio Lower Upper

65 100

67 54.3 0.0 110.2

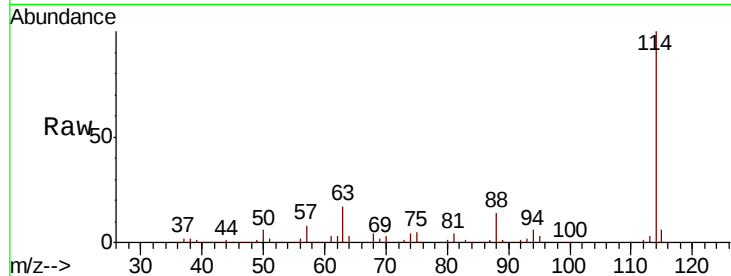




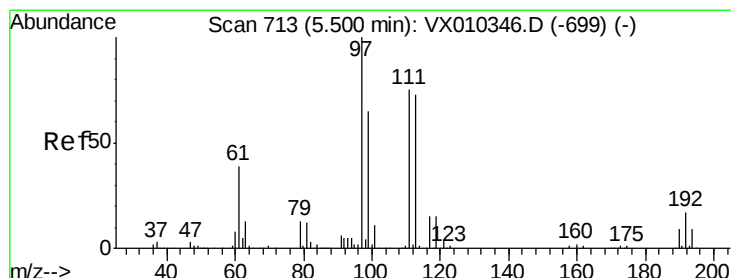
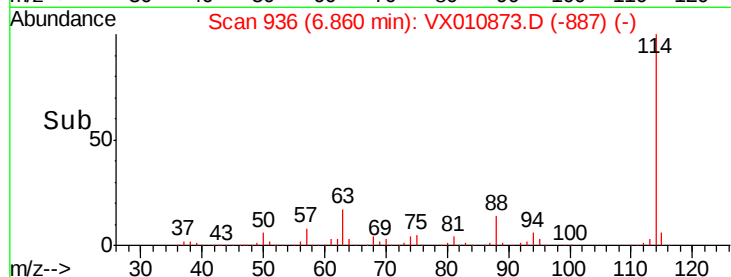
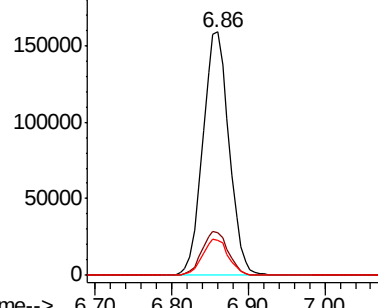
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010873.D
 Acq: 15 Jul 2019 10:49

Instrument :
 MSVOA_X
 ClientSampleId :
 EB-03-190711

Tot Ion:114 Resp: 376564
 Ion Ratio Lower Upper
 114 100
 63 17.5 0.0 33.8
 88 14.5 0.0 27.6

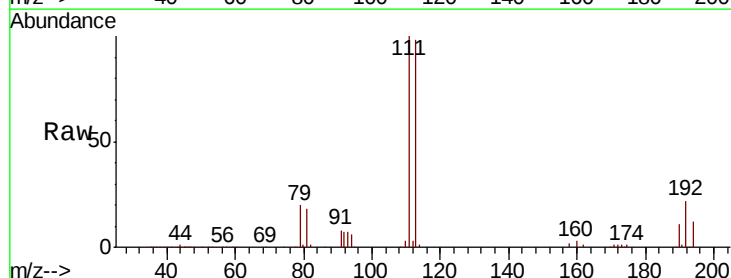


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

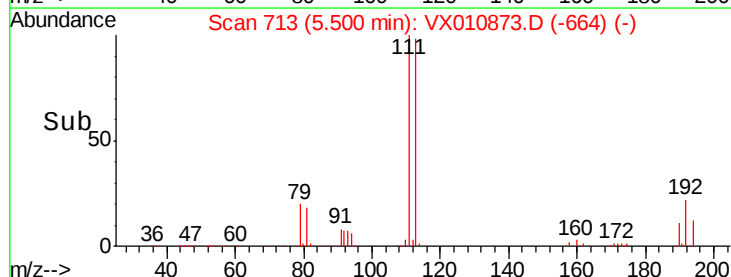
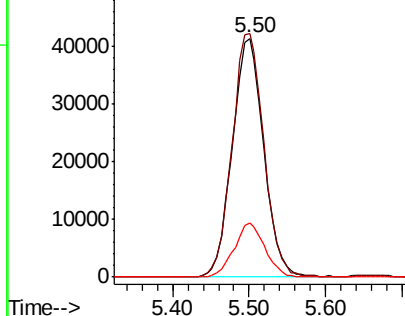


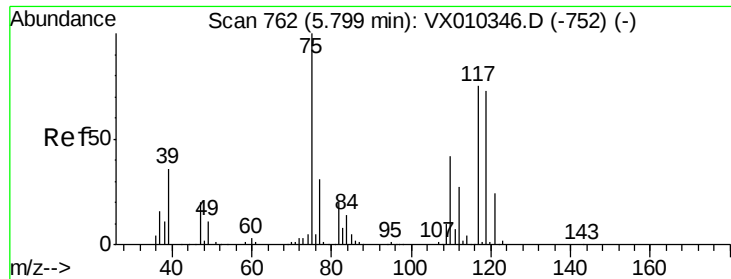
#35
 Dibromofluoromethane
 Concen: 51.110 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX010873.D
 Acq: 15 Jul 2019 10:49

Tgt Ion:113 Resp: 117755
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.2 121.8
 192 22.2 18.6 27.8



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.407 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010873.D

Acq: 15 Jul 2019 10:49

Instrument :

MSVOA_X

ClientSampleId :

EB-03-190711

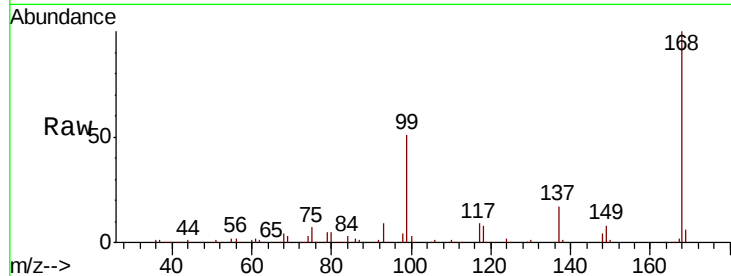
Tot Ion: 75 Resp: 16179

Ion Ratio Lower Upper

75 100

110 11.1 20.8 62.2#

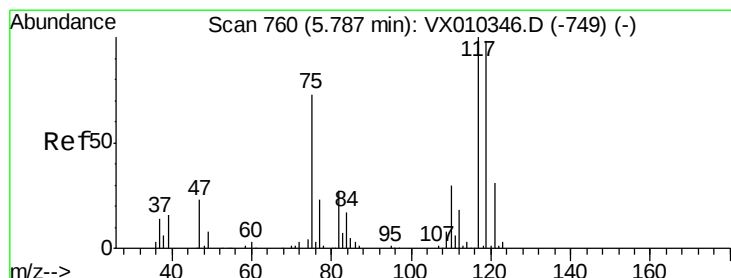
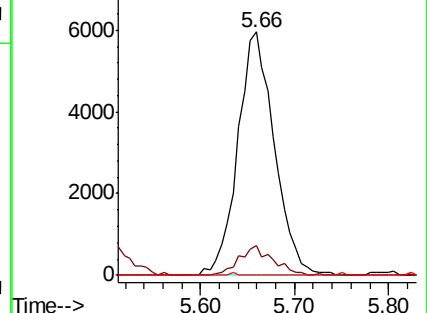
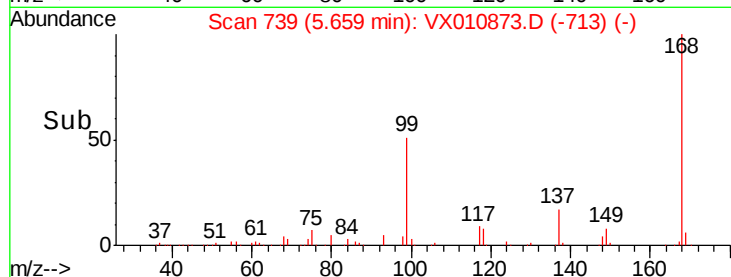
77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.839 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010873.D

Acq: 15 Jul 2019 10:49

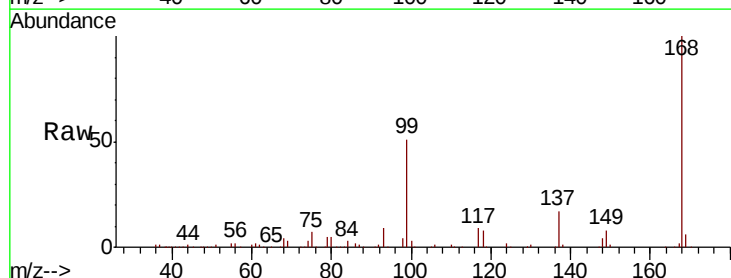
Tgt Ion: 117 Resp: 22161

Ion Ratio Lower Upper

117 100

119 4.7 78.2 117.4#

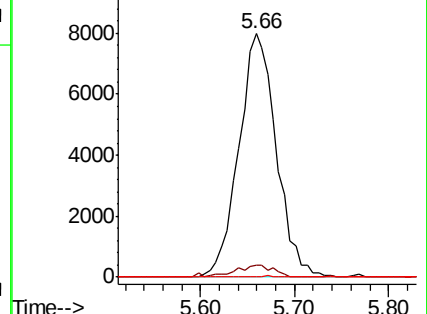
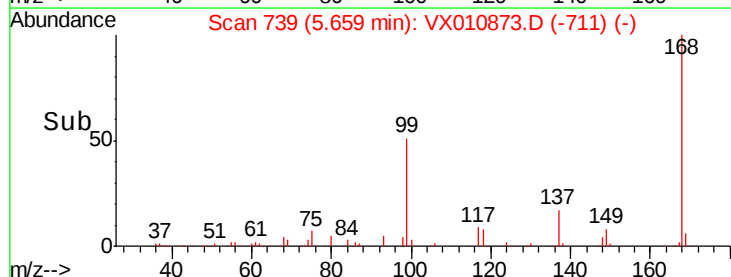
121 0.0 24.7 37.1#

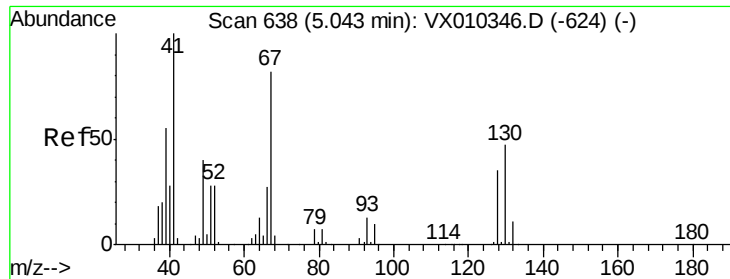


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 0.202 ug/l

RT: 5.06 min Scan# 640

Delta R.T. 0.01 min

Lab File: VX010873.D

Acq: 15 Jul 2019 10:49

Instrument :

MSVOA_X

ClientSampled :

EB-03-190711

Tot Ion: 41 Resp: 341

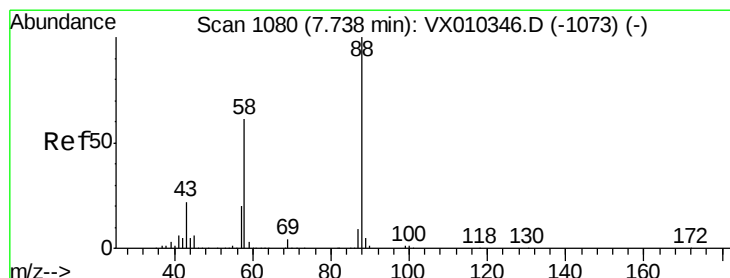
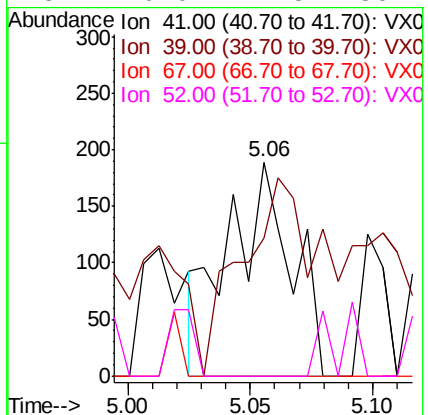
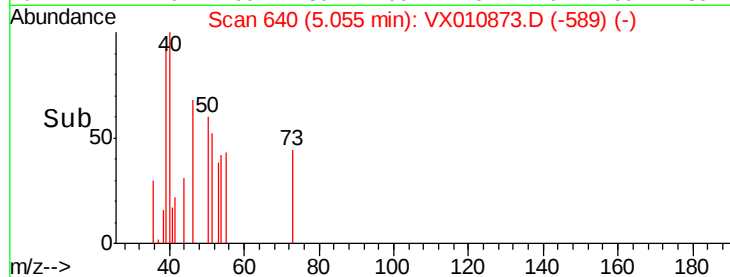
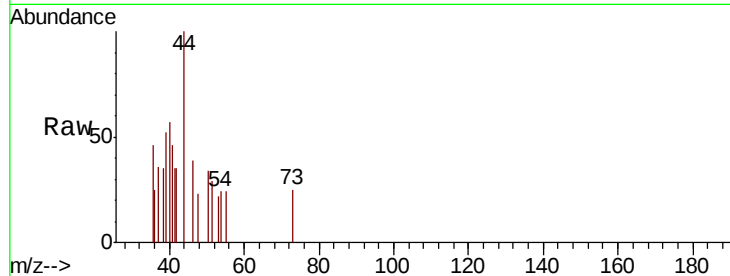
Ion Ratio Lower Upper

41 100

39 112.6 43.8 65.8#

67 0.0 66.6 100.0#

52 0.0 24.5 36.7#



#49

1,4-Dioxane

Concen: 0.323 ug/l

RT: 7.48 min Scan# 1037

Delta R.T. -0.26 min

Lab File: VX010873.D

Acq: 15 Jul 2019 10:49

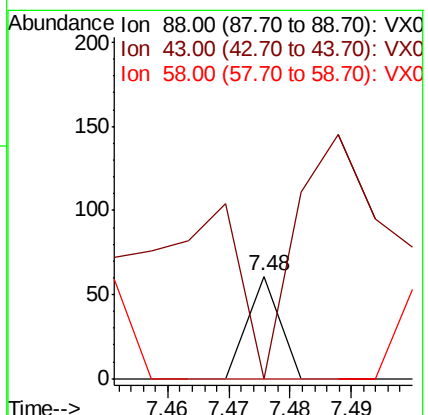
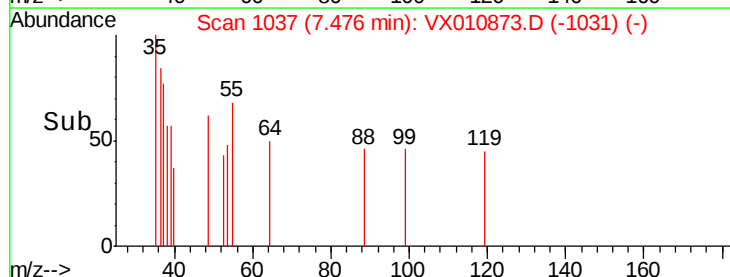
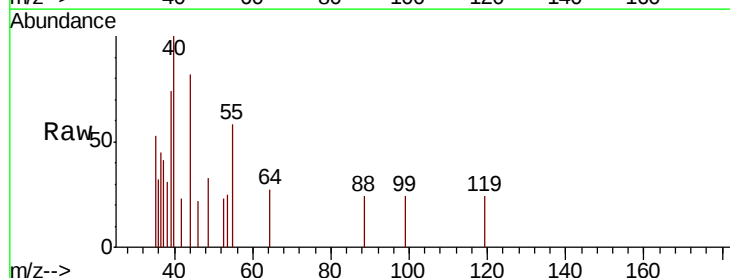
Tgt Ion: 88 Resp: 22

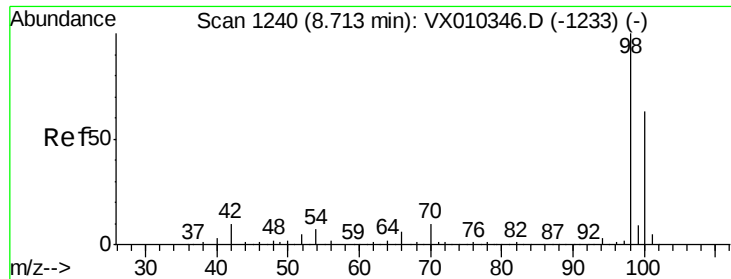
Ion Ratio Lower Upper

88 100

43 436.4 20.2 30.2#

58 0.0 49.5 74.3#

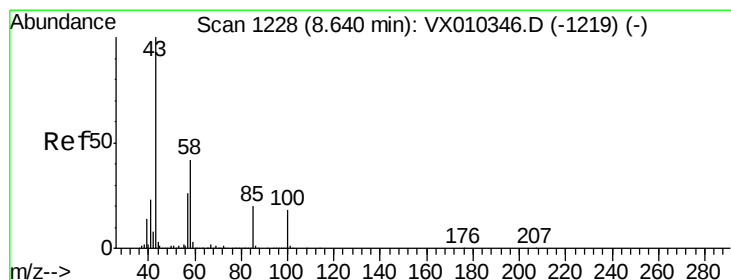
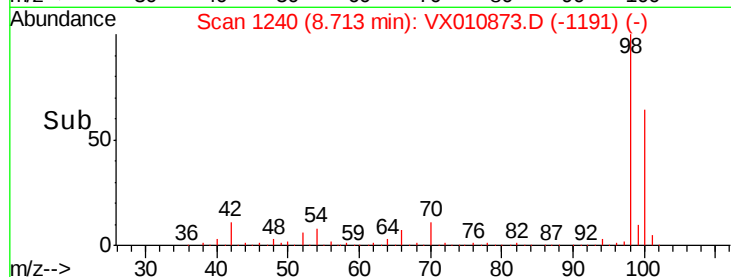
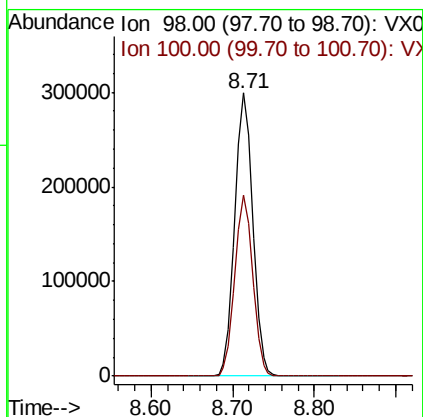
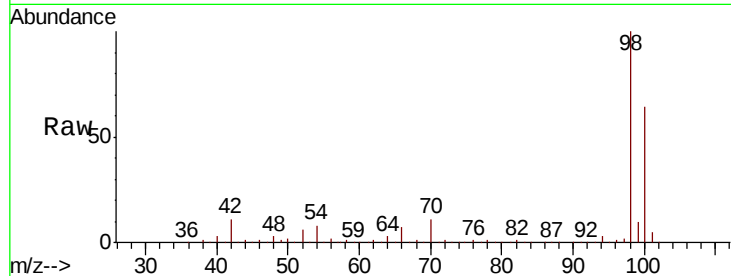




#50
Toluene-d8
Concen: 51.454 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010873.D
Acq: 15 Jul 2019 10:49

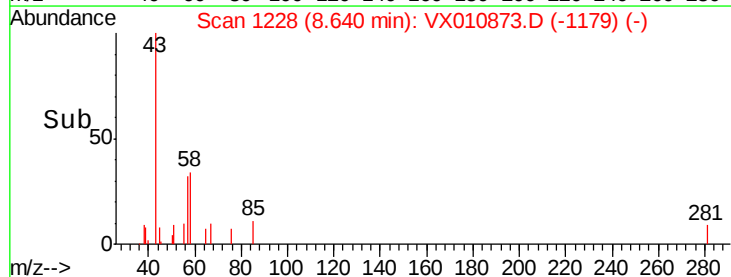
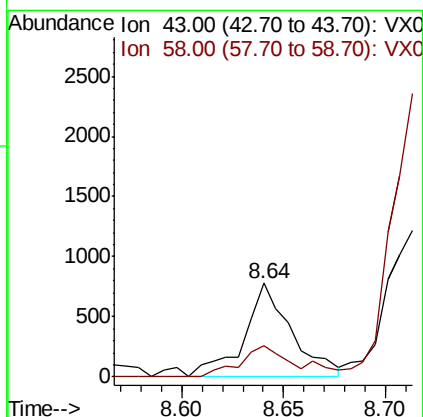
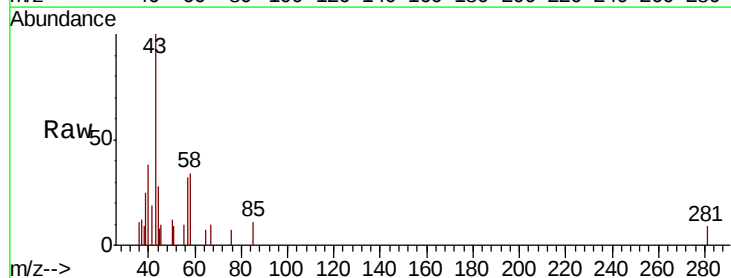
Instrument :
MSVOA_X
ClientSampleId :
EB-03-190711

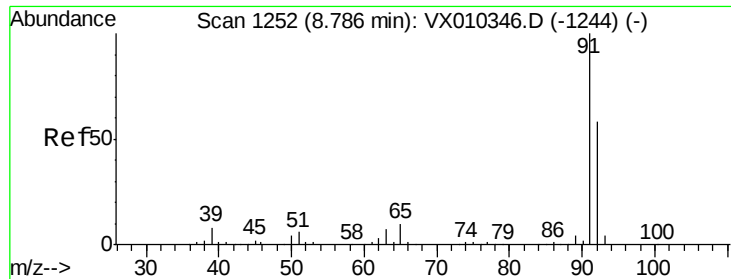
Tot Ion: 98 Resp: 453542
Ion Ratio Lower Upper
98 100
100 63.7 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 0.386 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VX010873.D
Acq: 15 Jul 2019 10:49

Tgt Ion: 43 Resp: 1257
Ion Ratio Lower Upper
43 100
58 39.3 33.5 50.3





#52

Toluene

Concen: 49.367 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX010873.D

Acq: 15 Jul 2019 10:49

Instrument :

MSVOA_X

ClientSampleId :

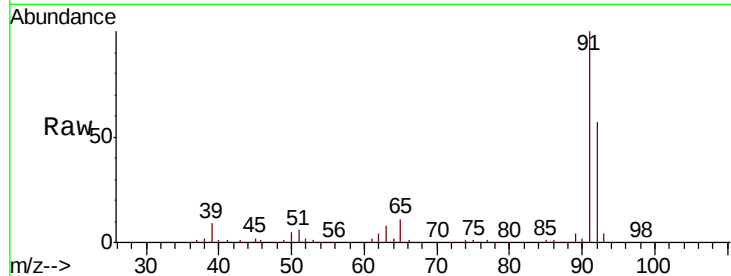
EB-03-190711

Tot Ion: 92 Resp: 303081

Ion Ratio Lower Upper

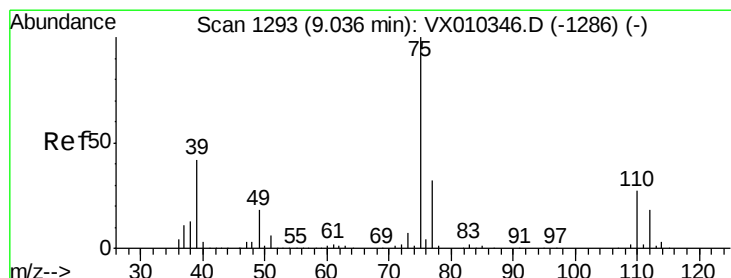
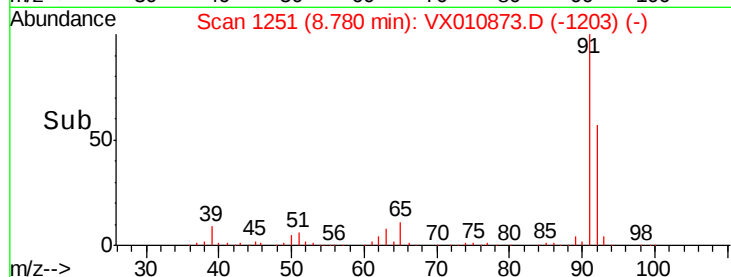
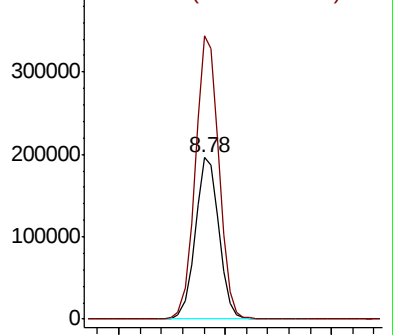
92 100

91 175.1 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#53

t-1,3-Dichloropropene

Concen: 1.045 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.26 min

Lab File: VX010873.D

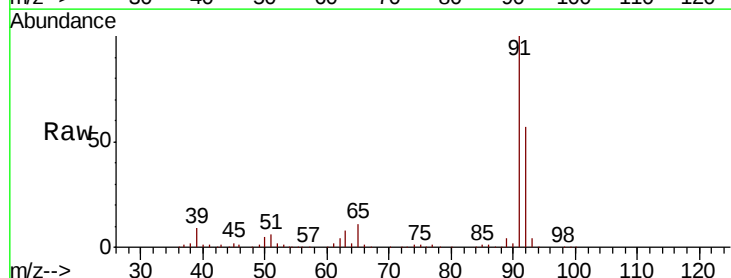
Acq: 15 Jul 2019 10:49

Tgt Ion: 75 Resp: 3625

Ion Ratio Lower Upper

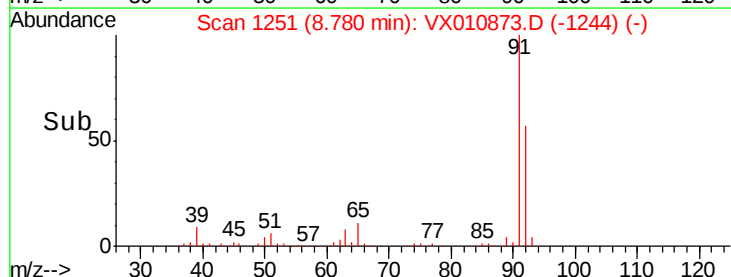
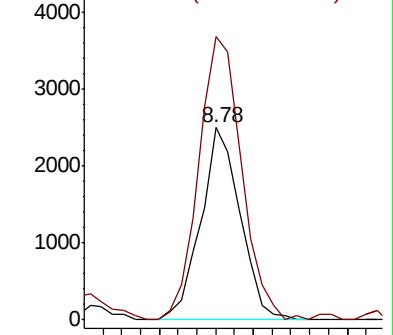
75 100

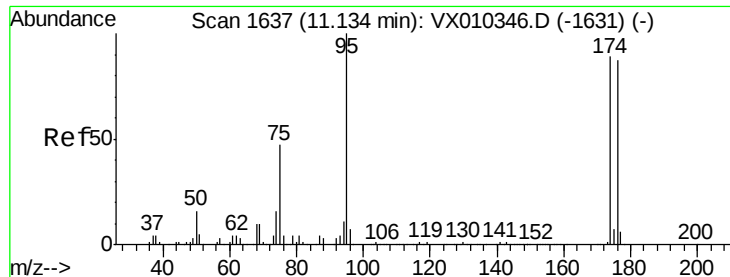
77 147.3 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0





#62

4-Bromofluorobenzene

Concen: 48.137 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010873.D

Acq: 15 Jul 2019 10:49

Instrument :

MSVOA_X

ClientSampleId :

EB-03-190711

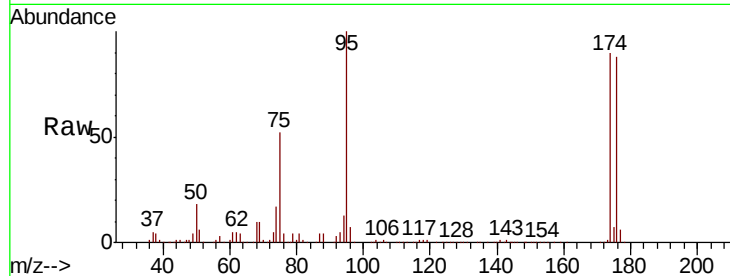
Tot Ion: 95 Resp: 153186

Ion Ratio Lower Upper

95 100

174 92.0 0.0 187.6

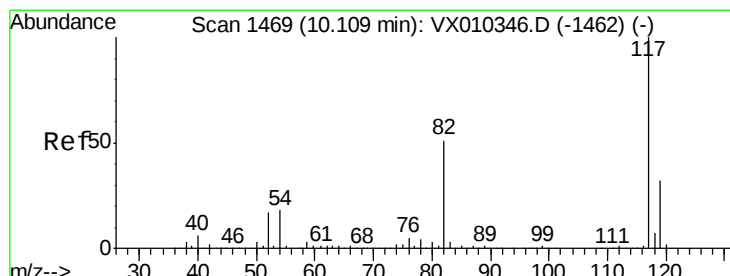
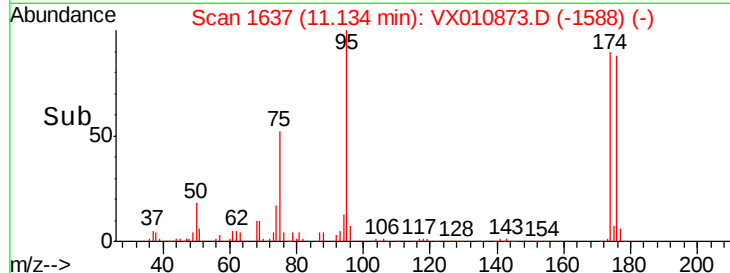
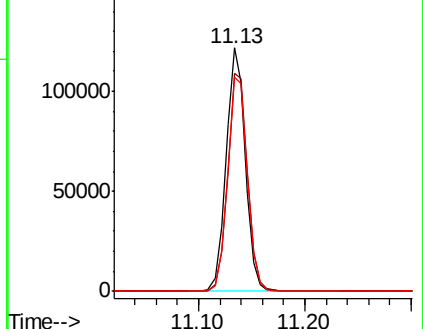
176 90.9 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010873.D

Acq: 15 Jul 2019 10:49

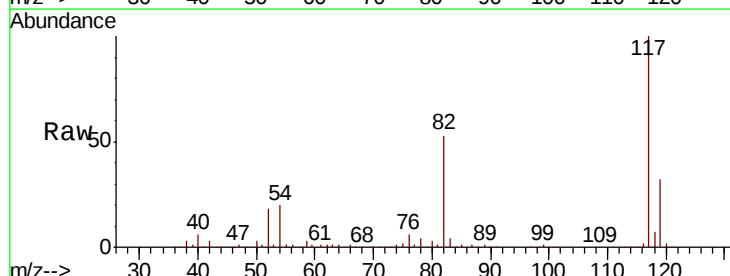
Tgt Ion: 117 Resp: 343796

Ion Ratio Lower Upper

117 100

82 53.1 41.2 61.8

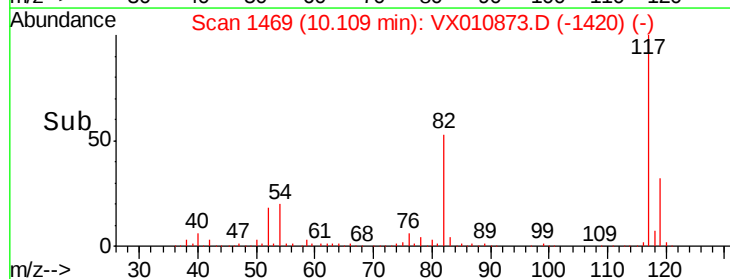
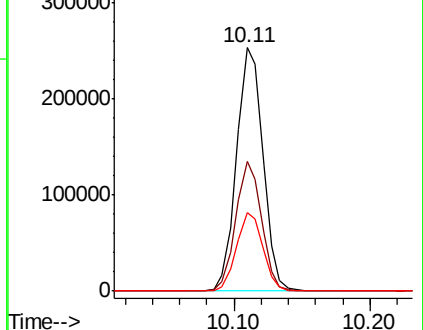
119 32.2 25.5 38.3

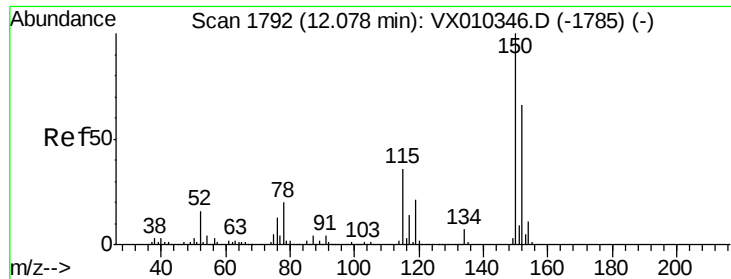


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010873.D

Acq: 15 Jul 2019 10:49

Instrument :

MSVOA_X

ClientSampleId :

EB-03-190711

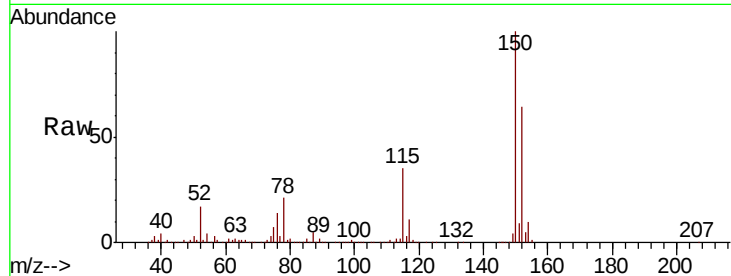
Tot Ion:152 Resp: 156453

Ion Ratio Lower Upper

152 100

115 55.5 38.6 115.7

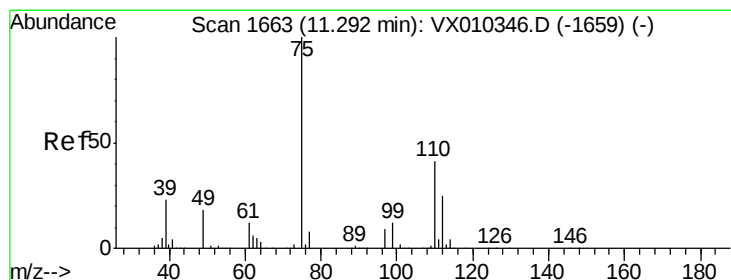
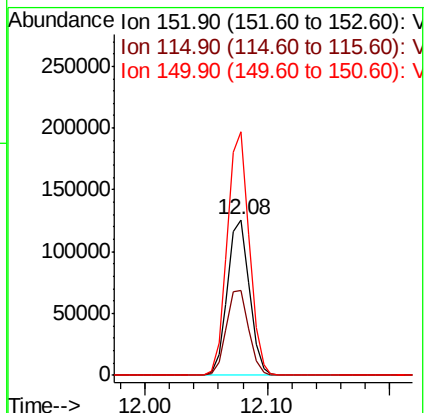
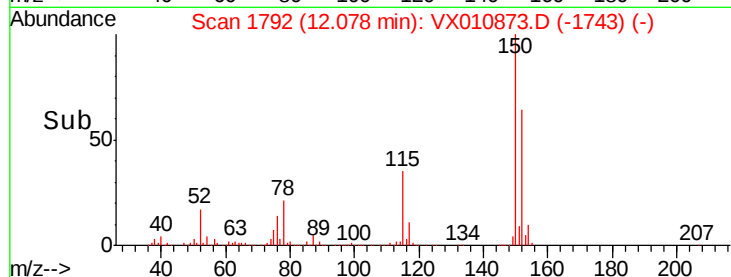
150 156.3 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 27.150 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010873.D

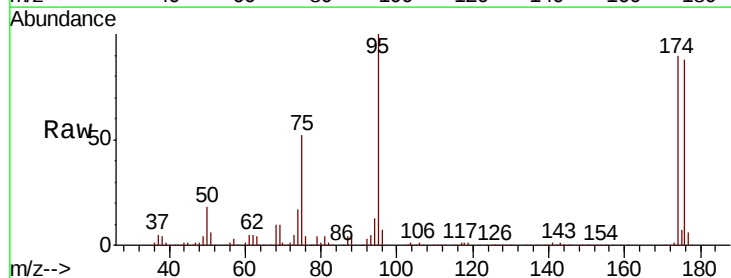
Acq: 15 Jul 2019 10:49

Tgt Ion: 75 Resp: 77403

Ion Ratio Lower Upper

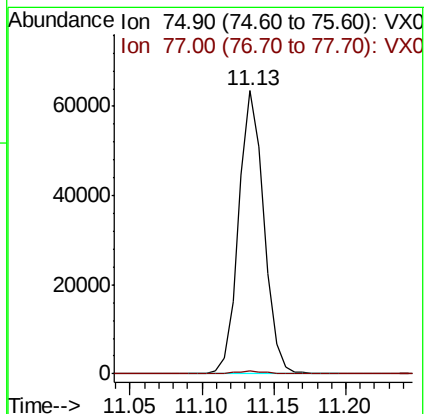
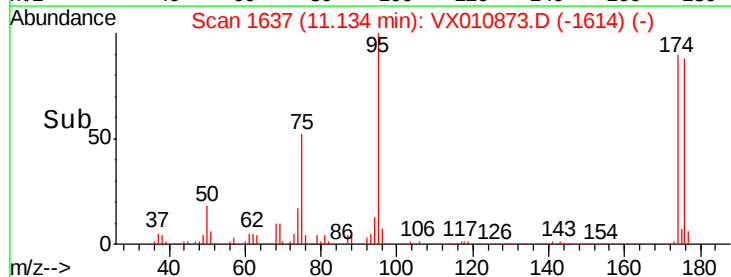
75 100

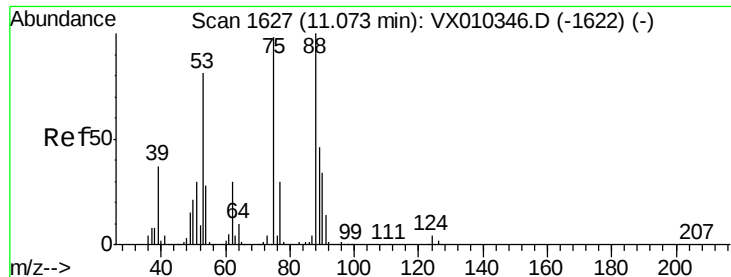
77 1.1 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 63.337 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010873.D

Acq: 15 Jul 2019 10:49

Instrument :

MSVOA_X

ClientSampleId :

EB-03-190711

Tot Ion: 75 Resp: 77403

Ion Ratio Lower Upper

75 100

53 0.0 66.1 99.1#

89 0.0 37.8 56.6#

